

SAF-RC-033
100-F Remaining Sites Burial Grounds -
Other Solid Quick Turn
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Randy Coffman X9-07 KW 5/14/07
INITIAL/DATE

Jeanette Duncan H4-21 KW 5/14/07
INITIAL/DATE

COMMENTS:

SDG: 07-A-2463 SAF-RC-033

Rad only ☒ Chem only Rad & Chem

☒ Complete Partial

Waste Site: 120-F-1 Glass Dump (In-process)

RECEIVED
MAY 23 2007

EDMC



5/9/07
Page 1 of 2

SUBMITTED TO:


Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354




REFERENCE DATA:

Client Sample No.:	J152H5 through J152H6
P.O. No.:	Not Available
Sample Location:	120-F-1 Glass Dump
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-2463
DCL Sample ID No.:	07-14282 through 07-14283
Sample Receipt Date:	5/8/07
Analysis Date:	5/9/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government..

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WEST COAST OFFICE
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NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

5/9/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 120-F-1 Glass Dump
Set ID: 07-A-2463

Client Sample ID:	J152H5	J152H6
DCL Sample ID:	07-14282	07-14283
Macroscopic Examination		
Accepted/Rejected:	Accepted	Accepted
Homogeneity:	Heterog.	
Color:	Grey	
Texture:	Fbrs/Grnlr	
Description:	Material	
Analysis:	PLM	
Asbestiform Minerals		
% Chrysotile:		
% Amosite:		
% Crocidolite:		
% Tremolite - Actinolite:		
% Anthophyllite:		
% Total Asbestos:	ND	
Other Materials		
% Cellulose:		
% Fiberglass:	>60 ≤ 70	
% Other Fibers:		
% Resin/Binder:		
% Non Fibrous:	>20 ≤ 30	

ND = None Detected Trace = <1%

Special Prep Procedures: Sample number J152H6 was prepared by DCL Procedure: ENV-004.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.



5/10/07
Page 1 of 2

SUBMITTED TO:


Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354

REFERENCE DATA:

Client Sample No.:	J152H6
P.O. No.:	Not Available
Sample Location:	120-F-1 Glass Dump
Sample Type:	Bulk
Method Reference:	DCL Procedure: ENV-004
DCL Set ID No.:	07-A-2463
DCL Sample ID No.:	07-14283
Sample Receipt Date:	5/8/07
Analysis Date:	5/10/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using DataChem Laboratories' procedure, ENV-004. The samples were acceptable upon receipt except where noted. Mountings of fibers observed and representative portions of the material were prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the portions of materials analyzed and are summarized on the attached Bulk Asbestos Analysis Data Sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

*Some samples may contain fibers that are not visible by PLM and can only be discovered by electron microscopy techniques.

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5/10/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Summary**

Client: Washington Closure Hanford
Location: 120-F-1 Glass Dump
Set ID: 07-A-2463

Client Sample ID: J152H6
DCL Sample ID: 07-14283

Macroscopic Examination

Accepted/Rejected: Accepted
Homogeneity: Homog.
Color: Brown
Texture: Grnlr/Fbrs
Description: Soil
Analysis: PLM

Asbestiform Minerals

% Chrysotile:
% Amosite:
% Crocidolite:
% Tremolite - Actinolite:
% Anthophyllite:
% Total Asbestos: ND

Other Materials


% Cellulose:
% Fiberglass: $>3 \leq 5$
% Other Fibers:

% Resin/Binder:
% Non Fibrous: $>90 \leq 100$

ND = None Detected Trace = $<1\%$

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-033-023		Page 1 of 1	
Collector COFFMAN		Company Contact R T Coffman		Telephone No. 528-6409		Project Coordinator KESSNER, JH		Price Code 86 Data Turnaround 15 Day	
Project Designation 100-F Remaining Sites Burial Grounds - Other Solid Quick T		Sampling Location 120-F-1 Glass Dump (In-process)		SAF No. RC-033					
Ice Chest No. CM2M-HILL-007		Field Logbook No. EFL-1174-2		COA R120F12600		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070264		Bill of Lading/Air Bill No. See OSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS None Special Handling and/or Storage NA		Preservation		None					
		Type of Container		P					
		No. of Container(s)		1					
		Volume		250mL					
SAMPLE ANALYSIS 07-A-2463				Asbestos- BULK-EPA					
Sample No. 07-		Matrix *		Sample Date		Sample Time			
J152H5 14282		OTHER SOLID		5/3/07		0945		X	
J152H6 14283		OTHER SOLID		5/3/07		0955		X	
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix * S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From R. COFFMAN / R. Coffman		Date/Time 1315 5/3/07		Received By/Stored In JRD DeWine / JRD		Date/Time 1315 5-3-07			
Relinquished By/Removed From JRD DeWine		Date/Time 1500 5-3-07		Received By/Stored In 3728 / 3A		Date/Time 1500 5-3-07			
Relinquished By/Removed From 3728 / 3A		Date/Time MAY 07 2007 1120 1007		Received By/Stored In MRS. [Signature]		Date/Time MAY 07 2007 1120			
Relinquished By/Removed From 6015 Sample [Signature]		Date/Time MAY 07 2007 1300		Received By/Stored In FEDEX		Date/Time			
Relinquished By/Removed From [Signature]		Date/Time		Received By/Stored In [Signature]		Date/Time 5/8/07 1049			
LABORATORY SECTION				Received By [Signature] Title 5/8/07 1049				Date/Time	
FINAL SAMPLE DISPOSITION				Disposal Method [Signature]				Disposed By [Signature] Date/Time	